a first plurality of elongated electrical conductors each having a protuberance at one end thereof;

said protuberance of each of said plurality of elongated conductors is bonded to one of said
plurality of contact locations;

each of said plurality of elongated conductors extends outwardly away form said surface to form an array of elongated conductors:

said array of elongated conductors being embedded in a material:

said elongated conductors having exposed probe tip ends at an exposed surface of said material; and

[An electronic device probe according to claim 1, wherein] said first space transformer has a second surface with a second plurality of contact locations thereon and said second space transformer has a surface with a plurality of third contact locations.

912 (Amended) An electronic device probe for probing an electronic device comprising:

a first space transformer having a first surface;

said first surface having a first plurality of contact locations;

a first plurality of elongated electrical conductors each having a protuberance at one end thereof;

said protuberance of each of said plurality of elongated conductors is bonded to one of said

plurality of contact locations;

each of said plurality of elongated conductors extends outwardly away form said surface to form an array of elongated conductors;

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said array of elongated conductors being embedded in a material;

said elongated conductors having exposed probe tip ends at an exposed surface of said material; and

an electronic probe according to claim 1, further including a means for disposing said probe tip ends in electrical contact with contact locations on said electronic device.

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13. (Amended) An electronic device probe for probing an electronic device comprising:

a first space transformer having a first surface;

said first surface having a first plurality of contact locations;

a first plurality of elongated electrical conductors each having a protuberance at one end thereof;

said protuberance of each of said plurality of elongated conductors is bonded to one of said plurality of contact locations;

each of said plurality of elongated conductors extends outwardly away form said surface to form an array of elongated conductors:

an elastomeric

said array of elongated conductors being embedded in amaterial;

said elongated conductors having exposed probe tip ends at an exposed surface of said material;

[An electronic device probe according to claim 1, wherein] said elastomeric material has a depression surrounding at least one of said probe tip ends.

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[] 14. (Amended) An electronic device probe for probing an electronic device comprising:

a first space transformer having a first surface;

said first surface having a first plurality of contact locations;

a first plurality of elongated electrical conductors each having a protuberance at one end thereof;

said protuberance of each of said plurality of elongated conductors is bonded to one of said plurality of contact locations:

each of said plurality of elongated conductors extends outwardly away form said surface to form an array of elongated conductors;

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said array of elongated conductors being embedded in admaterial;

said elongated conductors having exposed probe tip ends at an exposed surface of said material;

[An electronic device probe according to claim 1, wherein] said probe tip ends extend beyond said exposed surface of said elastomeric material.

12. (Amended) An electronic device probe for probing an electronic device comprising:

a first space transformer having a first surface;

said first surface having a first plurality of contact locations;

a first plurality of elongated electrical conductors each having a protuberance at one end thereof;

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said protuberance of each of said plurality of elongated conductors is bonded to one of said plurality of contact locations:

each of said plurality of elongated conductors extends outwardly away form said surface to form an array of elongated conductors:

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said array of elongated conductors being embedded in a material;

said elongated conductors having exposed probe tip ends at an exposed surface of said material;

[An electronic device probe according to claim 1, wherein] said probe is part of an electronic device test tool.

1317. (Amended) An electronic device probe for probing an electronic device comprising:

a first space transformer having a first surface;

said first surface having a first plurality of contact locations;

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a first plurality of elongated electrical conductors each having a protuberance at one end thereof;

said protuberance of each of said plurality of elongated conductors is bonded to one of said plurality of contact locations:

each of said plurality of elongated conductors extends outwardly away form said surface to form an array of elongated conductors:

said array of elongated conductors being embedded in a material;

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said elongated conductors having exposed probe tip ends at an exposed surface of said material:

[An electronic device probe according to claim 1, wherein] said electronic device is selected from the group consisting of a semiconductor chip and a semiconductor chip packaging substrate and a semiconductor wafer.

14 (Amended) An electronic device probe for probing an electronic device comprising:

a first space transformer having a first surface;

said first surface having a first plurality of contact locations;

a first plurality of elongated electrical conductors each having a protuberance at one end thereof;

said protuberance of each of said plurality of elongated conductors is bonded to one of said plurality of contact locations:

each of said plurality of elongated conductors extends outwardly away form said surface to form an array of elongated conductors:

said array of elongated conductors being embedded in a material;

said elongated conductors having exposed probe tip ends at an exposed surface of said material; and

[An electronic device probe according to claim 1, wherein] said protuberance is selected from the group consisting of a wire bond ball bond, a solder bump bond and a laser weld bond.

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(Amended) An electronic device probe for probing an electronic device comprising:

a first space transformer having a surface;

said surface having a first plurality of contact locations;

a plurality of elongated electrical conductors each having a protuberance at one end thereof;

said each of said protuberance of each of said plurality of elongated conductors is bonded to one of said plurality of contact locations:

each of said plurality of elongated conductors extends outwardly away from said surface to form

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an array of elongated conductors:

said array of elongated conductors being embedded in an elastomeric material

said elongated conductors being embedded in an elastomeric material'

a second space transformer in electrical connection with said first space transformer;

said first space transformer has a second surface with a second plurality of contact locations thereon and said second space transformer has a surface with a plurality of third contact thereon;

an electrical interconnection means for electrically interconnecting said second plurality of electrical contact locations to said third plurality of electrical contact locations:

a holding means for holding said first space transformer in a fixed spatial relationship with respect to said second space transformer;

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a means for disposing said probe tip ends in electrical contact with contact location on said electronic device; and

[An electronic device probe according to claim 20, wherein] said elastomeric material has a depression surrounding at least one of said probe tip ends.

23. (Amended) An electronic device probe for probing an electronic device comprising:

a first space transformer having a surface;

said surface having a first plurality of contact locations;

a plurality of elongated electrical conductors each having a protuberance at one end thereof;

said each of said protuberance of each of said plurality of elongated conductors is bonded to one of said plurality of contact locations:

each of said plurality of elongated conductors extends outwardly away from said surface to form

each of said plurality of elongated conductors extends outwardly away from said surface to form

each of said plurality of elongated conductors extends outwardly away from said surface to form

each of said plurality of elongated conductors extends outwardly away from said surface to form

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each of said plurality of elongated conductors extends outwardly away from said surface to form

each of said plurality of elongated conductors extends outwardly away from said surface to form

each of said plurality of elongated conductors.

said array of elongated conductors being embedded in an elastomeric material

said elongated conductors being embedded in an elastomeric material'

a second space transformer in electrical connection with said first space transformer;

said first space transformer has a second surface with a second plurality of contact locations thereon and said second space transformer has a surface with a plurality of third contact thereon;

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an electrical interconnection means for electrically interconnecting said second plurality of electrical contact locations to said third plurality of electrical contact locations;

a holding means for holding said first space transformer in a fixed spatial relationship with respect to said second space transformer;

a means for disposing said probe tip ends in electrical contact with contact location on said electronic device; and

[An electronic device probe according to claim 20, wherein] said electrical interconnection means is an interposer between said first space transformer and said second space transformer.



24. (Amended) An electronic device probe for probing an electronic device comprising:

a first space transformer having a first surface;

said first surface having a first plurality of contact locations;

a first plurality of elongated electrical conductors each having a protuberance at one end thereof;

said protuberance of each of said plurality of elongated conductors is bonded to one of said plurality of contact locations;

each of said plurality of elongated conductors extends outwardly away form said surface to form an array of elongated conductors:

said array of elongated conductors being embedded in a material;

said elongated conductors having exposed probe tip ends at an exposed surface of said material; and

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